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AUTHOR

Graziano, Anthony F.

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### **ABSTRACT**

Future funding alternatives for the University of Illinois, Urban-Champaign are presented. Four variations of budget projection models were analyzed in relation to two basic sets of assumptions. Both assumptions assumed an annual rate of increase for salaries and wages and expense and equipment. The two versions vary the treatment of equipment replacement and new programs. The various projections were carried out to the year 2000 and plotted in order to emphasize the difference in various methodologies. Charts, tables, and appendices of statistical data are presented. (MJM)



## FUTURE FURDING ALTERNATIVES - URBANA-CHAPPAIGN

## Anthony F. Graziano1

## Procedure

The total general fund budget for Urbana-Champaign and the retirement fund portion of it has been:

TABLE 1

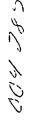
Fiscal Year	Total General Funds	Retirement Fund Portion	Total General Fund Operating Budget
FY 1971	\$101,670,025	\$4,635,700	\$97,034,325
FY 1972	97,839,353	2,922,500	94,916,853
FY 1973	103,473,502	4,540,500	98,933,002

Table 2 presents the total operating budget (excluding retirement) and its major components for the past three years. It describes what has happened to major operating budget items during two years of serious cutbacks. In order to test possible future funding policies, four variations of fund increases were applied to the FY 1971 and FY 1973 budgets.

TABLE 2 URBANA-CHAMPAIGN GENERAL FUND OPERATING BUDGET

	FY'71	FY'72	FY'73
Salaries & Wages	\$81,753,860 (84%)	\$82,363,993 (87%)	\$86,655,478 (88%)
Expense & Equipment	\$15,280,465 (1.6%)	\$12,552,860 (13%)	\$12,277,524 (12%)
Operating Total	\$97 <b>,</b> 034,325	\$94,916,853	\$98,933,002
SUBTOTAL EXPENSE SUBTOTAL EQUIPMENT	\$12,800,465 (13%) \$ 2.480.000 ( 3%)	\$11,562,860 (12%) \$ 990,000 (1%)	\$11,282,524 (11%) \$ 995,000 (1%)

Anthony F. Graziano, Assistant Vice Chancellor for Academic Affairs, University of Illinois, Urbane-Champaign Campus, Champaign, Illinois.



The variations of fund increases assume different rates of increase for the major budget components: salary and wages (S & W), expense and equipment (E & E), equipment replacement (ER), and new programs (NP). Table 3 presents a brief description of the variations of the model. While the variations assume standard compound rates of growth for S & W, and E & E, varying assumptions are made about the future funding policies for ER and NP.

T A B L E 3

FOUR VARIATIONS OF BUDGET PROJECTION MODEL

	CASE 1	CASE 2	CASE 3	CASE 4
Salaries & Wages(1)	3 1/2%	4 1/2%	5 1/2%	5 1/2%
Expense & Equipment (1)	3%	4%	5%	4%
Equipment Replacement (2)	1%	1.5%	2%	1%
New Programs <sup>(2)</sup>	1.5%	1%	.5%	.5%
Composite	(5.93%)	(6.93%)	(7.93%)	(6.79%)
,				

<sup>(1)</sup> Calculated on previous year's base for S & W or E & E

Two sets of basic assumptions were applied to each of the funding variations. Both assumed an annual compound rate of increase for S & W and E & F, the two major components subject to annual demands for merit and cost increases. But the two versions vary the treatment of ER and NP funding.

The first version assumes alternative choices of funding ER and NP--as incremental "year by year" amounts and as cumulative additions to the base.

VERSION 1: Increase the base year figures at a compound rate for S & W and for E & E, then



<sup>(2)</sup> Calculated on previous year's total operating budget base

generate a subtotal for this amount in each of the projected years. Increase ER and NP by stipulated year by year increments and also generate a cumulative total. Print the incremental year by year amounts and the cumulative amounts. Create three projected totals:

- (1) S&W + E&E + (ER+NP) year by year amounts
- (2) S&W + E&E + (ER+NP) cumulative amounts
- (3) S&W + E&E + ER year by year + NP cumulative

The second version assumes that a permanent annual pool for equipment replacement (ER) and new programs (NP) is established once and that this pool will increase annually at varying rates of inflation.

VERSION 2: Increase the base year figures at a compound rate for S & W and for E & E, then generate a subtotal for this amount in each of the projected years. To the year following the base years of FY 1971 and FY 1973, add a "one time" incremental ER and NP amount equal to the percentage increases specified in Table 3 for equipment replacement and new programs. From the newly generated FY 1972 and FY 1974 base years, increase the amount for ER and NP as follows:

(1) increase ER by 3% per year, and increase NP by 3 1/2% per year,

- (2) increase ER by 4% per year, and increase NP by 4 1/2% per year,
- (3) increase ER by 5% per year, and increase NP by 5 1/2% per year, and
- (4) increase ER by 4% per year, and increase NP by 5 1/2% per year.

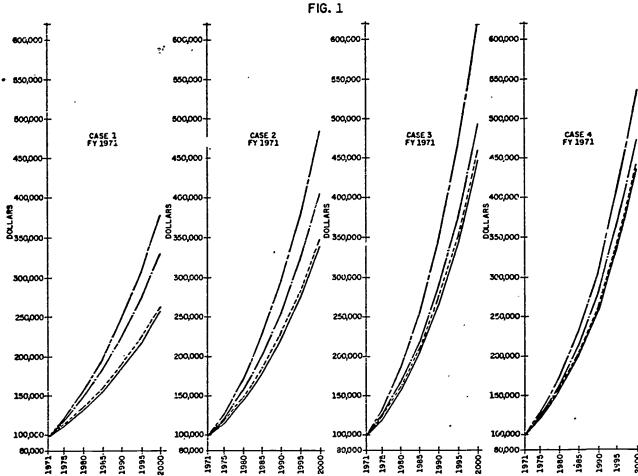
## Results

The various projections described above were carried out to the year 2000 and plotted as Figures 1 and 2 in order to emphasize the difference in the various methodologies. Version 1 results are presented in Figure 1 and Appendix 1. Version 2 results are presented in Figure 2 and Appendix 2. The top half of Figures 1 and 2 and the top half of the individual cases presented in the appendices represent projections from Fiscal 1971, the last "normal" budget year. The bottom half of Figures 1 and 2 and the bottom half of the individual cases presented in the appendices present projections from FY 1973, the current budget year.

In the long run (to the year 2000), the base year from which projections are made would not appear to be a serious consideration. However, in the short run (to 1980), significant differences in the funding level occur by choosing FY 1973 as the base year for projections instead of FY 1971. For example, under the assumptions of Version 1, differences of the order of \$10,000,000 to \$15,000,000 occur in the generated 1980 budgets depending upon which alternative ER + NP policies are pursued (SEE Table 4). The Version 2 projections to 1980 vary by as little as \$6,000,000 and by as much as \$13,000,000, depending upon which case assumptions are assumed for the FY 1971 base and the FY 1973 base (SEE Table 5).

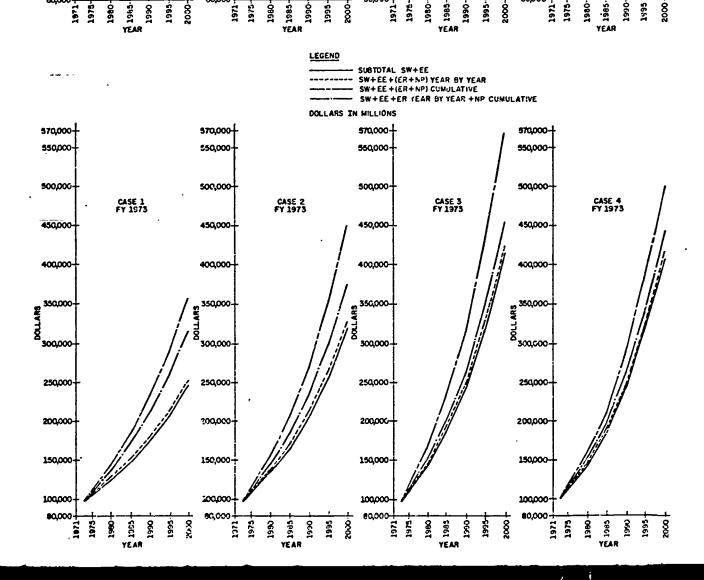


## UNIVERSITY OF ILLINOIS MODEL FOR AGGREGATE PLANNING **VERSION 1**

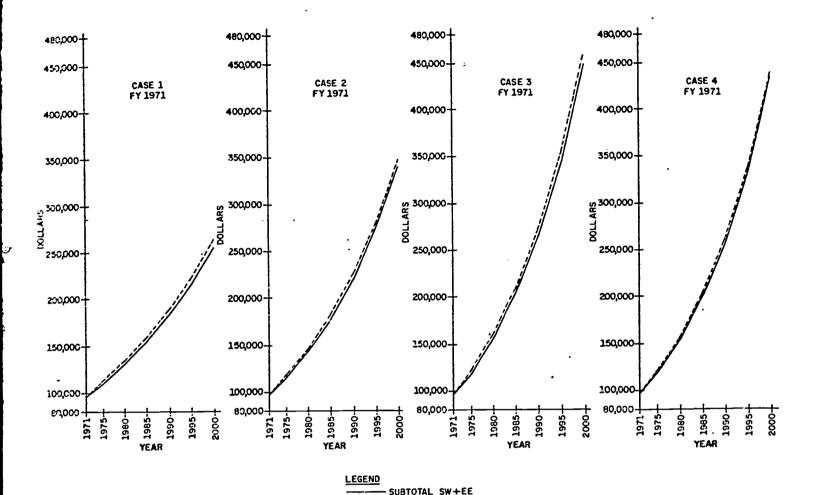


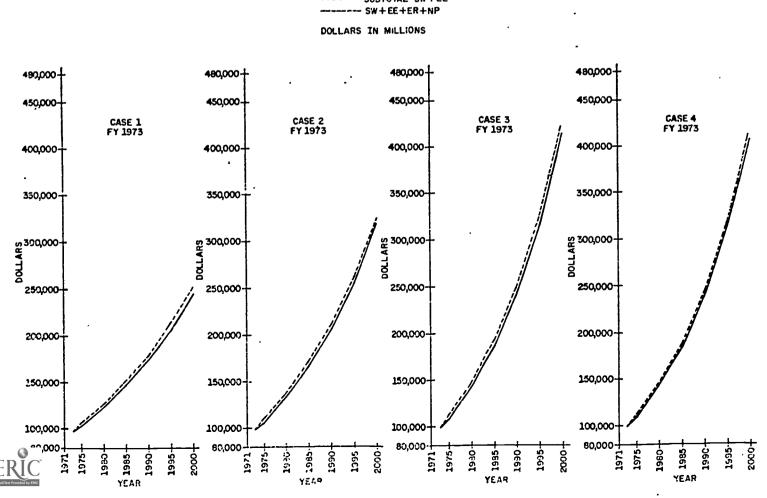
1990 1995

1971



# MODEL FOR AGGREGATE PLANNING VERSION 2 FIG. 2





# ERIC

# TABLE 4

# VERSION 1

# 1980 RESULTS PROJECTED FROM FY 1971 BASE

							_
CASF 4	\$132,366,500 21,748,900	1,541,200	770,600 5,695,200	156,427,200	171,200,900	161,351,800	
CASE 3	\$132,366,500 23,704,900	3,121,400 22,955,400	780,400	159,973,200	184,765,700	164,931,700	
CASE 2	\$121,493,200 21,748,900	2,148,600 16,365,400	1,432,400 10,910,300	146,823,100	170,517,800	156,301,000	
CASE 1	\$111,422,000 19,937,500	1,313,600 10,372,300	1,970,400 15,558,400	134,643,600	157,290,200	148,231,500	

# VERSION 1

SW + EE + ERYr/Yr + NP Accum

 $SW + EE + (ER+NP)_{Yr/Yr}$ 

NP NP Accum Er

ER ERAccum

য় হ ও ও SW + EE + (ER+NP)<sub>Accum</sub>

# 1980 RESULTS PROJECTED FROM FY 1973 BASE

	CASE 2	CASE 3	CASE 4
\$110,249,900 15,099,700	\$117,925,500 16,156,300	\$126,055,400 17,275,600	\$126,055,400 16,156,300
1,253,000	2,011,200 12,405,300	2,866,600 17,214,600	1,422,100 9,555,500
1,880,200 11,919,300	1,340,800 8,270,200	716,700 4,303,700	718,200
128,483,400	137,433,900	. 146,914,300	145,774,200
145,215,100	154,757,400	164,849,300	♥ i57,515,300
138,522,400	144,363,300	150,501,300	149,381,900

SW + EE + ERYr/Yr + WPAccum

SW + EE + (ER+NP)Accum

SW + EE + (ER+NP)Yr/Yr

NPAccum

ER ERAccum

TABLE 5

VERSION 2

# 1980 RESULTS PROJECTED FROM FY 1971 BASE

	CASE 1	CASE 2	CASE 3	CASE 4
N & N	\$111,422,000	\$121,493,200	\$132,366,500	\$132,366,50
ਜ਼ ਜ਼	19,937,500	21,748,900	23,704,900	21,748,900
ER	1,229,100	1,992,000	2,867,100	1,327,900
NP	1,916,600	1,379,900	744,600	744,600
SW + EE + EP + NP	134,505,300	146,613,900	159,683,200	156,188,000

# VERSION 2

# 1980 RESULTS PROJECTED FROM FY 1973 BASE

	CASE 1	CASE 2	CASE 3	CASE 4
M & S	\$110,249,900	\$117,925,500	\$126,055,400	\$126.055,400
ਜ਼ ਤ ਜ਼	15,099,700	16,156,300	17,275,600	16,156,300
ER	1,181,300	1,483,900	2,651,500	1,251,800
·NP	1,824,100	1,288,300	682,100	682,100
SW + EE + ER + NP	128,355,000	136,854,000	146,664,600	145,567,800

The Version 1 model shows the largest future increases in funding will be derived from an operating budget with the following components:

SW + EE + (ER+NP) cumulative

The second highest funding increase will result from the following components:

SW + EE + ER year by year + NP cumulative

And the smallest increase will be generated by:

SW + EE + (ER+NP) year by year

The components presented above are annual amounts generated by formula from the preceding year's base <u>unless</u> a particular component has been <u>accumulated</u> and compounded over time.

Cases 1 through 4 generate a range of future budgets which increase the current budget by a minimum of 2 1/2 times and a maximum of 6 times by the year 2000.

It is interesting to compare these various results to projections of state revenue. First, however, let us examine Table 6 which presents past increases in state revenues and state investment in higher education from those revenues for several midwest states, New York, and California. In all these cases, except for California, the increase in higher education operating expenditures from state revenues has been greater than the increase in total state revenues. For example, the State of Ohio has been increasing its higher education operating expenditures at twice the rate at which its total state revenues have been increasing. In the case of Illinois, higher education operating expenditures have been increasing at approximately 1 1/2 times the rate of increase in total state revenues.

Table 7 presents total Illinois State government revenue for the period

1958 through 1974 and projections of this revenue through 1980 assuming annual



### TABLE 6

# A COMPARISON OF INCREASES IN STATE REVENUE AND IN HIGHER EDUCATION OPERATING EXPENDITURES FROM STATE REVENUES 1958-68 AND 1960-70

# DOLLAR AND PER CENT INCREASE IN TOTAL STATE REVENUE (1)

	1958	THROUGH 1968	3	1960	THROUGH 1970	<del></del>
	DOLLARS	PER CENT	APPROXIMATE ANNUAL COMPOUND RATE	DOLLARS	PER CENT	APPROXIMATE ANNUAL COMPOUND RATE
ILLINOIS	\$1,778,334	160	10.0	\$2,895,655	199	11.7
INDIANA	876,244	157	10.0	1,031,668	151	9.6
IOWA	541,629	125	8.7	646,930	123	8.5
MICHIGAN	1,933,528	136	9.0	2,479,330	150	9.6
MINNESOTA	949,982	182	11.0	1,166,678	186	11.1
OHIO	1,671,530	113	7.8	2,034,972	111	7.8
WISCONSIN	1,087,326	195	11.5	1,445,275	210	12.1
NEW YORK	5,046,738	197	11.6	7,047,419	213	12.2
CALIFORNIA	6,167,866	208	12.0	7,644,119	204 .	11.9

# DOLLAR AND PER CENT INCREASE IN HIGHER EDUCATION OPERATING EXPENDITURES FROM STATE REVENUES

•	1958	THROUGH 1968		1960	THROUGH 1970	
	DOLLARS	PER CENT	APPROXIMATE ANNUAL COMPOUND RATE	DOLLARS	PER CENT	APPROXIMATE ANNUAL COMPOUND RATE
ILLINOIS INDIANA IOWA MICHIGAN MINNESOTA OHIO WISCONSIN NEW YORK CALIFORNIA	\$ 252,125 201,287 99,121 302,671 142,276 228,955 203,932 272,180 478,741	315 293 235 195 254 318 471 510 198	15.3 14.7 13.0 11.5 13.6 15.4 18.4 18.9	\$ 341,715 263,644 113,245 376,712 192,253 320,261 260,204 373,970 486,440	333 318 226 207 279 383 460 534 138	15.7 15.4 12.7 12.0 14.3 16.9 18.2 19.2

FY 1958 through 1968 is presented as well as FY 1960 through 1970, for Illinois experienced a large incremental increase in revenues due to the new state income tax in FY 1970. While this increase in revenues generated by the income tax creates a one time large fluctuation, the overall longterm annual compound rate of increase in general revenues during the 1960's has been at about 10% per year for Illinois.

"State Revenues and Expenditures for Selected States With An Emphasis On Education, 1958-1970," University Bureau of Institutional Research, University of Illinois, March, 1972," p. 1.



compound increases of 6%, 9%, and 12%. Total revenue for the period FY 1958 through 1971 was obtained from the U.S. Department of Commerce publication, "State Government Finances," and total state revenues for FY 1972 through 1974 were taken from the "Illinois State Budget in Brief, FY 1974." The projections forward from FY 1971 demonstrate that even though state revenues increased at a compound rate of approximately 10% per year during the decade preceding the introduction of the Illinois State income tax, state revenues have increased at only approximately 6% per year during the past three years. Table 7 indicates that a major and unlikely change in tax policies will have to take place in order to generate increased state revenues approaching anything like what might have been generated had the revenue increases experienced in the 1960's continued through the 1970's.

The various case assumptions applied to Version 1 and Version 2 of future funding policies for Urbana-Champaign generate a maximum 1980 general fund oudget of \$184,765,700 and a minimum 1980 budget of \$128,355,000. Table 8 attempts to place these figures in perspective by comparing past and future Urbana-Champaign general fund budgets to past and future total state revenues (assuming future state revenues will grow at the rate of 6% per year).

If Urbana-Champaign is to maintain its general fund budget at the current 1.72% of total Illinois State revenue, or if in fact it is to increase its budget as a proportion of total state revenue, then (a) the State's fiscal condition must improve significantly (by an increase in revenues or in the taxes which generate those revenues), (b) Urbana-Champaign must be prepared to justify reallocation to its operating budget from other segments of the total higher education budget for the State of Illinois, or (c) Urbana-Champaign must generate increased income from sources other than State revenue (tuition).



TABLE 7

## ILLINOIS REVENUE FY'58-'74 AND PROJECTED TO 1980

		ANNUAL			
FISCAL	TOTAL REVENUE	PER CENT	PROJECTED	PRC !ECTED	PROJECTED
<u>YEAR</u>	(THOUSANDS OF S)	INCREASE	<u>AT 6%</u>	·~ 0	AT 12%
		<del></del>		· <del>-</del>	
1958 (1)	\$1,111,286				
1959	1,197,430	7.75			
1960	1,452,061	21.26			
1961	1,540,551	6.09			
1962	1,674,031	8.66			
1963	1,846,977	10.33			
1964	1,938,034	4.93		•	
1965	2,116,048	9.18			
1966	2,270,260	7.28			
1967	2,397,620	5.60			
1968	2,889,620	2052			
1969	3,268,185	13.10			
1970	4,347,716	33.03			
1971	3,000,989	15.02			
1972 (2)	5,132,000	2.6	\$5,301,000	\$ 5,451,000	\$ 5,601,100
1973	5,760,000	12.2	5,619,100	5,941,700	6,273,200
1974	5,973,000	3.7	5,956,300	6,476,400	7,026,000
			•		:
1975 (3)			6,313,600	7,059,300	7,869,200
1975			6,692,400	7,694,600	8,813,400
1.976 1977			• •		9,871,100
			7,094,000	8,387,100	•
1978			7,519,600	9,142,000	11,055,600
1979			7,970,800	9,964,700	12,382,300
1980			8,449,000	10,861,500	13,868,100
1981			8,956,000	11,839,100	15,532,300

<sup>(1)</sup>FY'58-'71 data taken from "State Revenues and Expenditures for Selected States With an Emphasis on Education, 1958-1970," University Bureau of Institutional Research, University of Illinois, March, 1972.



<sup>(2)</sup> FY'72-'74 data taken from "Illinois State Budget in Brief, FY 1974," p. A-5.

<sup>(3)</sup> FY'7,5-'80 data projected forward at 6%, 9%, and 12%.

T A B L E 8

# URBANA-CHAMPAIGN PAST AND PROJECTED OPERATING BUDGET COMPARED TO PAST AND PROJECTED ILLINOIS STATE REVENUES

YEAR	URBANA-CHAMPAIGN OPERATING BUDGET	TOTAL ILLINOIS STATE REVENUE (THOUSANDS OF S) (1)	URBANA-CHAMPAIGN OPERATING BUDGET AS PER CENT OF TOTAL STATE REVENUE
1960	\$ 39,847,900	\$1,452,061	.2.74
1965	58,860,100	2,116,048	2.78
		•	
1970	90,678,100	4,347,716	2.09
1971	97,034,325	5,000,989	1.94
1972	94,916,853	5,132,000	1.85
1973	98,933,002	5,760,000	1.72
41075			
*1975 MINIMUM	108,407,500	6 212 600	1.72
MAXIMUM	130,943,900	6,313,600	2.07
*1980			
MINIMUM	128,355,000	9 449 000	1.52
MAXIMUM	184,765,700	8,449,000	2.19

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<sup>(1)</sup>  $_{\mbox{\scriptsize State}}$  revenues projected forward at rate of 6% per year.

<sup>\*</sup> Projected

UNIVERSITY OF THEIRIS PAUF 6 MODEL FOR AGGREGATE PLANNING VERSION 1 CASE 1 1975 .... 1976 .... .. 1977 .... 1978 ..... 1960 1973 1974 \_\_\_\_1971\_\_\_\_1972 \_ 1949 1985 1987 1036 1992 1994 1981 1943 1960 2000 . . . . 1991 07037.9 100496.3 104013.7 10765-1 111-22.0 1365-5.0 141759.3 146721.4 11456.6 157171.1 13203.6 199465.7 206964.7 214208.4 221105.7 43814,4 \_\_R\_\_SALARIES\_t #AJES\_\_\_\_\_\_81753.9 =3542.0 34:15.3 37570.9 115321.8 119758.0 123535.5 12155943 120070.3 102672.5 100300.0 17.222.8 143357.4 19937.5 17198.1 17714.3 10 EXPENSE + EQUIPMENT - 19 - . 1 25265... 2-4:0.5 20313. 71 27 . 3 :1111.0 20535.7 21151.7 .... 23278.7 .... 33157.2 2-362-\_\_\_\_1061.9 \_\_\_\_11933.8 32953.6 13442.5 1197-2.3 103787.9 107239.4 111012.7 114412.2 97034.4 120354.2 12 SUB-TOTAL SW + EE 171977. 177673.5 153299.1 15.447.. 160772.4 213515.1 217732.3 225197.5 165290.4 257714.6 135857.4 1-3539.3 190270.7 135792.1 1-5321.4 153299.1 2-0905.8 2-9160.9 232419.5 233537.7 11-8-1 1137-4 .\_\_. ق. د 137.9 1371.4 14 FOULPMENT FEPLACEMENT 1111.5 1602.0 1719.8 1554.5 2577.1 1358.6 1533.0 1507.7 1405.1 2439.1 749: .7 2252.0 1902.7 1907.9 2035.4 2105.2 9058.7 10372.3 5373.1 7785.6 4224.4 A340-5 1003.5 9.0 16 EQUIP REPLACE ACCUM :9254.3 22535.9 2+415.5 26265.3 20917.1 11730.8 14583.1 15092.1 17645.5 13135.9 -59.25 . 7 . 46502.8 -1-24.9 34266.4 36443.3 32525.7 25159.0 3 31 25 . 2 12151.3 1970.4 1731.1 1556.8 1610.1 \* 665. 2 1772.2 1505.3 0.0 .18 . NEW PROGPAMS 2668.1 3737.5 2579.7 2759.5 2494.2 2331.7 2411.6 2179.8 2254.5 2037.9 2107.5 3465.7 3433.8 3613.6 3157.7 3255.0 ... 3053.1 2354.1 2451.9 13555.0 15556.4 35522.- 35382.5 9440.7 4237.4 8359.5 3052.1 0.0 20 NEW PROGRAMS ACCUM-26531.5 31375.7 58343.6 61537.4 33955.4 35522.4 65151.0 55856.5 35522.4 17596.2 25469.9 19703.° 24136.2 21533.7 54055.2 43241.0 51349.7 \_ 42237.0 97034.4 102×53.0 10e342.6 110022.9 113748.1 117542.5 121710.6 135875.4 130194.3 134643.c 134253.9 .44.72.5 143454.9 154056.6 10033 164701.7 170437.4 176277.0 182317.3 18x6.5.0 SUB-TOTAL SHIEE FR . NP 139253.9 .44.72.5 143954.9 15-156.6 10033 125027.4 231311.9 23825.1 215727.3 223125. 2:4742.4 246923.5 255399.0 Ze=157.5 \_\_\_ 240477 -223175.5 97034.4 102653.3 103891.4 115126.4 121575.1 123244.5 135143.7 142278.1 149657.6 157707.2 165164.5 173349.6 131744.7 143575.5 197563.3 208309.3 214573.3 228583.0 238907.5 240704.1 260665.6 272106.9 283940.9 28081.1 307841.7 321936.9 33581.8 349491.6 363883.0 276472.0 .... SUB-TOTAL EH+EE+ (ER+ NP) A 470 97024.4 1)2203.0 10753'.0 113025.0 113450.3 1240.7.2 120770.2 134717.- 121840.1 14477.5 124812.3 151010.7 15452.7 175440.3 133471.3 191251.7 129318.9 207552.7 215272.2 225108.4 234410.3 243943.9 255315.0 20+010.9 274575.2 137-93.1 290736.0 308460.0 320540.6 333440.3 OPER BUD=S++EE+ER+NP 4TC 65 3.0 0.0 84555.5 89688.4 22827.5 98576.5 49439.1 102913.5 105521.0 110249.0 114103.6 118102.4 122336.0 126514.2 120942.2 125525.1 140268.5 145177.9 150259.1 155514.1 160961.2 106534.3 172425.6 178460.5 184706.5 191171.3 197852.3 204787.4 211954.9 219173.3 SALARIES + MAGES 12645.8 12025.2 13415.9 15494.9 17504.7 18J27.9 22839.6 23524.3 24230.6 13918.4 14223.9 :9570.8 19127.9 14660.0 0.0 12277.5 12545.8 EXPENSE & ENHINENT 0.0 :4570.8 24957.5 15552.7 16019.3 15497.9 20901.5 27271.7 21528.5 0.0 0.0 99933.0 107354.3 105952.7 109492.4 113257.3 117152.4 121161.6 125349.6 129661.3 124121.7 138735.9 143509.1 144440.9 173555.0 158839.2 154305.7 169961.5 175310.9 141862.8 138123.4 174401.1 201300.2 2032.1 215401.9 227319.7 230491.6 238432.3 246645.0 34 SUB-TOTAL SW + EE 1394.9 1023.3 :050.5 \_\_36.\_ EQUIPMENT PEPLACEMENT 0.0 0.0 1535.5 1548.4 1053.1 1494.5 1758.1 1296.6 1341.2 1337.4 :425.1 1454.5 2228.2 2394.3 2304.9 2464.5 1341.2 2012.0 2082.3 2154.0 1818.6 AR EQUIPMENT REPLACE ACCUM 9242.8 \_\_\_7946.Z 23:15.7 4200 ... 5499.9 567.7 1023.3\_ 2331.7 3175.2 2.3\_\_ 2:357.6 10 34.3 15401.0 1: 125.5 35013.9 15014. / 19553.0 37230.1 24934.3 20815.5 23751.5 30774.5 12850-0 1757.2 1980.2 1542.4 1578.3 0.0 1535.0 1587.6 40 NEW PROGRAMS 2103.1 2464.6 2546.4 2437.2 1944.9 2011.3 2021.0 :154.6 2225.1 23-2.5 3231.0 3457,4 2574.2 2429.7 7342.3 2)10.5 3123.5 272,1.5. 2:21.2 2919.3 10035.1 11919.2 1122.8 4105.2 1575.0 42 NEW PROGRAMS ACCUM 0.0 0.0 27022.1 79420.9 32034.7 34573.5 15576.1 17-57.1 201,9.7 22336.4 24639.8 13964.2 52892.5 55650.0 59310.0 52515.3 66532.2 43147.3 43161.8 37401.4 40223.3 44\_\_SHB=TITAL\_#+EE+EP+NP.\_\_\_ 0.0 0.0 0.0 99933.0 10-497.6 111057.- 117444.4 124031.0 130854.7 137917.4 145015.1 152765.4 1605 1.8 168654.3 177625.3 155674.3 134921.3 263876.5 212459.6 223354.7 233566.0 SUB-TOTAL SHAFE+(ER+HP)A 244198.5 230162.2 206533.5 270236.5 290373.5 306029.0 315917.4 329353.6 368253.1 350723.6 0.0 0.0 10.0 10.602.6 110034.J 115402.6 120454.2 176540.3 13240.6 13767.4 144822.2 15130.1 15400.3 16500.3 177247.3 17770.4 187650.J 179435.7 20104.7 712140.6 230227.7 239688.4 240475.0 250594.J 270072.2 280976.5 202114.0 363700.1 311703.0 OPEN BUD=SH+EE+EP+NP ACC

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# VERSION 1

			CAS	E 2						
	1981	1972 1982 1932	1 771 1 441 1 943	1974 1984 1994	1975 - 1985 1995	1976 1946	_ 1977 1947 1997	1973 1965 1995	1979 1949 1909	1980 146, 2000
B SALARIES + MAGES	126963.2	137674.3	1 1 - 5 + 1 . 5	14 6 8 8 2 . 4	151-71.3	101479,4 1552.4 245700.8	.04.34.4	17277443	13)>~:.)	145571.5
	15283.5 22619.9 33481.4	23523.5	2 ++ 2+.0	25443.1	25400.3	27511.3	29523.1	24164.9	3,3655.5	3.157.7
SUB-TOTAL SW + EE	97034.4 149579.1	10:32+.5	105305	110483.0	115353.7		125797.0	131253.2	137173.9	143242.1
14 EQUIPMENT REPLACEMENT	2243.7 23459.7	2343.3	244:.6	255	2057.7	1307.1 2746.0 4290.5	2139.3	3073.1	3172.0	
	0.0 18609.1 47303.2	20952.1	23399.7	25953.5	28521.5	E301.8 31407.5 57335.5	34316.9	373>>.3	43527.5	43 743,5
	0.0 1495.8 2306.5	1013.2 1562.0 2408.6	1358.0 1531.1 2515.2	1134.8 1733.3 .2626.6	1153.7 1776.5 2742.9	1204.7 1857.3 2864.4	1939.5	1313.6 2025.4 3123.7		1432.4 2208.7 3406.6
20 NEW PROGRAMS ACCUM	12406.1 31523.5	13463.1	155 ??. 1	17302.4	14081.0	5534 <u>.5</u> 20934.4 44591.1	22977.0	24933.3	9~77.9 27313.3 54063.1	10910.2 27227.3 57474.6
2ZSUB-TOTAL	9703+.4 153318.6 23=411-3	103057.5 160101.9 _245278.0	100449.7 167135.9 _257203.9	113245.1 174593.6 263224.5	118253.0 182709.4 _28114a.4	1234o2.6 190377.6 292597.J	128944.0 198403.4 304533.9	134547.3 207602.7 324177.5	140503.3 216742.1 234301.6	146827.1 226788.6 249172.7
	97034 .4	103857.5	113982.9	113423.3	126173.3	134307.2	1-2780.3	151628.5	150958.5	170517.5
26 OPER BUDES##FE#FR#NP ACC	97034.4 164223.9 265633.3	172503.3	191151.8	190192.9	199511.8	20≈459.6	2197-1.7	236483.5	2+1595+4	25: +07 -:
65									-	-
30 SALARIES + WAGES	0.0 123732.0 191373.9	· 0.3 128777.3 199985.6	86055.5 134572.2 208234.8	93554.9 143627.9 218338.9	94629.3 145956.7 228216.2	98388.1 152538.9 238485.7	103737.9 163-79.3 249217.4	107988.1 157700.s 260432.0	1:2947.4 175247.1 272151.3	117925.5 183123.1 264397.7
32 EXPENSE & EQUIPMENT	16962.6 24871.9	17474.7	15:73.7	13933.0	19655.7	13810.5 20442.9 30260.5	21250.5	22111.1	22995.5	23915.3
34SUB-TOTAL SW + EE			152745.9	157528.5	166612.0	112593.5 174011.6 2657-5.2	1817-0.0	139811.8	198242.7	207048.4
36 EQUIPMENT PEPLACEMENT	J.0 2103.5 3243.7	0.3 2193.3 3387.8	0.0 2271.2 3539.3	1549.9 2392.9 3695.5	1618.5 2497.2 3359.7	1690.5 2610.2 4331.2	1765.5 2725.1 421J.3	1843.9 2647.2 4397.4	1925.7 2973.6 4592.9	2011.7 3105.7 4797.0
38EQUIRMENT REPLACE ACCUM	0-0 14505.a 41387.4	15699.5 44777.2	1-9-70.8 	1545.1 21343.7 52311.3	21 59 4 5 23 5 9 2 . 9 5 5 9 7 0 . 7	264 73 · 1 59701 • 9	5624,5 59219+2 54112+2	36365.4 56503.7	35 y4y 00 721 02 05	38145 77899.5
. 40 NEW PROGPAMS	0.0 1400.3 2162.5	7.3 1464.5 2252.3	0.0 1527.5 2253.9	10:3 • 2 15:24 • 3 ———————————————————————————————————	1079.1 1664.1 	1177.0 1743.1 <u>2657.5</u>	1177.0 1912.4 2056,3	1223.7 1375.1 	1793.3 1922.4 	1340.2 2070.5 2155.
. 42 NEW PROGRAMS ACCUM	0.0 9670.6 2 <b>7</b> 593.0	0.0 11133.1 27851.5	0.0 12550.5 32211.3	1037.7 14255.3 34674.0	2112.3 159?2.J 372-7.1	3237.3 17552.1 39334.6	4416.3 19479.5 42741.5	21377.6 +5n73.1	6979.4 23350.0 41725.0	8770.2 25430.5 51973.0
44 SUB-TUTAL SH+EE+ER+NP	143535.5	1-7201	15000000	14,3514.7	170779.1	115516,1 178362.1 275404.9	175243.5	1 1455 7.1	233191.7	212224.7
46 SUB-TOTAL SW+EE+(FP+NP)A			1943 +7.2	1/51/6-1	206417.5	120796.9 21#167.0 3u8532.8	23,438.7	243255.8	2555 1	273524.7
48 OPER BUD=SW+CE+EF+MP ACC			1479 37.6	170177.2	1 (5033.1	117524.4 144244.0 317712+1	201945.5	214)36.1	27497K.3	2 445.4.7

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# VERSION1

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		<b></b>			E 3	****	• • <del>-</del> ·			1030	1600
		1941 1941 1991	1972 — 1992 1992		1-3+4	1 125	1976 1996	1987	1974 1944 1994	1979 1959 1969	1°80 1°43 2°00
<u>a</u>	_ 2300k <u>4, 22:98482</u>	139646.6	147327.1	155-31.0	153-7:00	172447.2	112.0	142553.3	20:140.1	_1_1-466.0 _21-312.7 _36007-6	55670006
10		15280.5 24990.1 40543.1	261 6	27++1.3	25813.4	31,000)	:1750.7	33351.)	3-012.6	30 / 7 3 . 1	2379 36017.5 
_ 12		164535.5	173401.7	142971.3	192791.9	203251.3	114275.7	215405.0	232152.9	1-8042.1 251025.6 425975.1	264712.3
	EQUIPMENT REPLACEMENT.		2045.3	3557		2337.J_ -Jep.J			2819.5 4753.3	295348_ 5021.7	
16	EQUIP REPLACE ACCUM	2.0 2c245.1 		33372.9	5476.5 37278.6	41293.5	45579.2	50097.3	54350.6	19833.9 59882.3 127817.7	65:74.5
	NEW PROGRAMS	0.0 822.7 1395.4	511.5 867.3 1471.1	53°.2 914.4 1551.0	556.4 954.0 1535.2		531.8 1071.4 1917.5	666.Ó 1129.5 1916.2	1:00.8	740.2 1255.4 2129.9	780.4 1773.6 2245.5
20	NEW PROCIAMS ACCUM	6561.5 17689.5	7423.3	8543.2	1=19.1 9307.2 22346.8	10323.4	11394.8	12524.1	12715.1	- 4953.5- 14770.6 31954.4	14264.1
	.SUB-TOTAL SH+EE+ER+\P	97034.4 158550.2	104852.2	110536.8	115524.4	122043.3	1295.19.7	135532.7	143735.9	151743.2 257303.7 _420024.5.	159975.2 271320.1
	_SUB-TOTAL SH+EE+(ER+NP)A	97074.4 197344.4	104652.2	113394.1	121733.3	133943.7	146501.6 271252.7	150783.3	151517.6		134765.7
	DPER BUL #Sm #EE # ER #NP ACC	97034.4 174389.0 202349.3	134357.3	134871.7	235954.9	217639.7	229759.1	242947.5	25654:03	271375.9	28630C.7
65							-				
	SALARIES + WAGES	0.0 132983.4 227162.0	239655.7	35555.5 143019.2 252536.5	255742.5	281413.1	101754.3 173313.0 296340.7	313219.5	330445.3	3~4620.7	126355.4 215319.5 357794.6
32	EXPENSE + FOULDMENT	15139.4 	19045.3	19398.5	12891.4 20995.5 _34204.1	22048.0	23.53.8	24302.4	25543.8	15453.0 26737.9 43653.9	
34	BE_ #2. DATOTECUS			159017.4	17/15c.7	166797.3	19090).0	237577.7	218973.3	135936.8 2:JE94.4 337274.6	243454.4
36 .	EQUIPMENT REPLACEMENT	3022.: 5134.2	0.J 3187.J 5413.6	0.) 3150.4 5705.2	2086.3 3543.2 6016.9	2199.7 3715.4 6346.5	2317.3 3739.2 6692.0	2445.5 4153.5 7355.3	2573.5 4374.6 7441.4	2718.7 4617.9 7845.5	2826.6 425.2 8272.6
38	EQUIPMENT REPLACE ACCUM	20237.2 61157.2	23424.2 66570.3	? 5764+> 73274+1		4 <u>6</u> 544.5 64544.5	6535 <u>.3</u> ?6332.9 91335.6	42156.4	~c5:5.3	11343.0 51153.9 113573.8	56 123.1
. 40	NEW PROGRAMS	0.0 755.6 1283.5	).) 745.7 1353.4_	0.0 840.1 <u>1427.1</u>	521.6 205.6 1524.7_	549.9 934.) 1555.2	579.3 934.8 15 <u>7.</u>	511.4 1038.4 1744.1	544.6 1054.9 <u>13-2.1</u>	673.7 1154.5	716.7 1217.3 2018.3
, 42	NEW PROGRAMS ACCUM	0.0 5059.3 15289.3	0.0 5856.0 16642.7	0.0 45.75.1 13057.8	521.6 7591.9 17574.5	1371.5 8515.7 21161.1	1651.3 9503.7 22334.1	2262.7 12519.1 24598.2	2907.3 11534.0 26455.3	1587.0 12788.5 28419.7	4303.7 14305.0 30497.0
44	SUB-JOTAL_S.a+SE+ER+NP	154905.4	103732.7	1/2713.2	101557.7	191467.2	.`∪143+.d	212354.7	2.14452.8	_ 13+345.2 _ 245655.8 _ 402051.5	246545.9
46	A ( 9/4 P 3 ) + 33+WZ JATCT-BUZ		188629.2	201497.5	215754.3	224376.5	* in la catala . 4	26. 177.3	2171-5.3	153571.R > 44835.7 _554273.1_	3134.8 3
4A ()	OPER BUDESH+EE+FR+NP ACC			1 127/4.1	199 37.8	199049.2	210400.7	272370.4	234471.9	107747.6 743389.7 42359.8	24, 314.4
Full Text Provided by ERIC										•	**4 *

# VERSION 1

## CASE 4

			CASI	Ξ 4						
. , , , , , , , , , , , , , , , , , , ,	1921 1941 1931	1972 = 1992 1992	1 973 1 933 1 993	1984	1450	1755	1777 1947 1947	1975 1963 1994	1979 1966 1999	1950 1963 2000
8SALARIES_+ .wages	120-66 6	147171	165-11-1	776.5	177997.7	1)0348.7; 147412.0 311754.9	17.77000	2321-3-1	44-11-11	Z
10 EXPENSE + EQUIPMENT	15253.5	15541.7	15527.4	.7134.5 25443.1	17:75.0	18591.1	19334.7	20103.1 29759	20412.4 30455.5	2174F.9 32143.7
12 SUB-TOTAL SH + EE	62034 4	132142.0	107-21.4	113157.1	119164.5	125 - 7 + . 8	132060.1	139333.2	146378.4	154115.4
LA FOULPMENT SEPLACEMENT	1622.7 2720.2	1703.5 2654.3	1375.Z 1794.9 3017.1	1151.9 1874.2 3177.0		2139.3	£211.7	1200.3_ 2324.1 3910.5	1463.9 2452.7 4119.3	1541.2 2552.3 4320.0
	0.0 13013.0 34865.1	14721 5	2075.5 15570.4 42547.9.	14414.4	4420.1 23439.2 47212.2	12534.5	6995.0 24721.2 54429.3	\$385.4 21050.3 	0849.2 29503.3 62479.2	11290.3 22085.9 \$6517,9
LB. NEW PROGRAMS	0.0 811.3 1360.1	510.7 854.3 1432.4	537.6 399.5 1503.5	565.9 947.1 1585.6	595.3 997.3 1673.4	627.2 1050.2 1762.5	660.3 1105.9 1855.3	695.2 1164.5 1955.2	731.9 1226.3 2059.5	770.4 1291.5 2169.3
. 20 NEW PROGRAMS ACCUM	6506.5	72/0-7	37+0-2	9207.3	13204.6		12350.5	13525.1	14/21.5	5645.2 16045.0 33408.9
22. SUB-TOTAL SAHEFHER +NP	97024.4 164699.5 8.420408.	172/12 5	122521.7	102245.1	202450.1	213121.7	2744=7.5	235375.6	244947.2	106101.9
24SUB-TOTAL SH*88*(E44NP)A	97034.4 161784.9 324225.7	107077 2	7.140.7	2 : 11144 - 6	/ *:)() / 1 - 4	/ • • • • • • • • • • • • • • • • • • •	65517107	21370302		, , , , , , , , ,
25 OPER BUDESATEETERS ON ACC	97034.4. 170394.6 292139.8	173220.)	187957.7	703573.2	211657.3	2.53.5.4	(37/44.4	245134.2	202-12-4	21074707
65		· ·			_ ***					
	0.0 132988.4 227162.0	140302 6	145013.2 252836.6	15.160.2	164749.7 281413.1	101754.3 1739:0.0 296890.7	183369.4	153454.6 3304+5.3	704054.5	212214.5
32 EXPENSE + EQUIPMENT	16802.0 245(1.9		1.11 72 7	1 2430 4	10454 7	12910.5 234-2.9 30260.5	21250.5	2211111	26990.0	23417.5
34SUB-TOTAL Sw + EE	0.0 151283.9 254554.2	160366 1	14725 8	176211 4	184.47.4	116723.5 196135.4 339424.7	206575.3	21//21-2	22730000	(4106102
_36 EQUIPMENT REPLACEMENT	0.0 1497.9 2520.3		937.3 1651.9 2797.4	175%.6	1844.1	1942.5	1217.! 2046.3 3446.7	1251.9 2155.7 3531.8	1350.2 2270.3 3526.6	1472.1 2392.3 4032.0
34 FOLI PMENT REPLACE ACCUM.	11053.4 31215.9	12531.2	243-3 14271-1 365-8-5	15143.9	17447.8	45492.3	5531.3 21876.5 44439.2	24312.3	312349 24307.2 56897.6	9555.5 26695.5 60929.5
- 40 NEW PROGRAMS	0.0 756.4 1272.e	794.4		384.1	554.1	553.6 941.0	614.7 1932.4 1740.7	1055.6	691.6 1144.8 1932.4	715.7 1765.1 2330.1
42 NEW PROGRAMS ACCUM	0.0 5982.4 15264.4	5477 • 2		7532.5	4533.7	-514.7			3607.8 12783.5 23233.7	4325.9 13791.6 30269.9
94 93 + 33 + 42 OT CUR C						11-459.7 144113.9 335349.3				
46 SUB-TOTAL SW+EE+(EP+NP)A	0.0 167424.7 301924.5	1 1741 6	144444 4	. 25.3657.6	21267147	1825c3.5 27154).5 295141.5	237131.1	2,33,7,3,3	750441.6	/114 4 1 4 a 4
48 OPER BUD #SH+5E+EP+NP ACC	0.0 1578/9.2 272329.0	1. (013 1	1 24335 7	1 44144.5	1146.27.4	11 3540.0 207552.6 356420.7	219270.7	231513.7	744617.4	. 7/
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PAGE			1979	107654.1 151 P56.6 214208.4	19356.8 26013.9 34760.4	127,511,3 177,70,5 2,516,6,8	1603.8	1651.6 2612.1 3044.7	130056.1 182086.4 255003.8		105521.0 153259.1 211454.9	19701.7	121181.6 167960.8 238432.3	1146.9	1752.4. 2486.0 3506.8	35. 5.5.
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,			1936	97397.9 136966.0 193203.8	17714.3 23906.4 31993.8	114812.2 160772.4 225197.5	1942.1	1670.2 2356.0 3323.4	117574.5 164596.1 220493.3		976. 525. 171.	13415.9	109492.4 153525.0 215401.9	1344.5 1410.5 1845.6	1549.6. 2242.3	4 6 6
I S an Ing	***		1975	91814.4	17198.3 21113.0 31061.2	111012.7 155447.4 21772.3	1424.9	1513.7 2276.3 1211.0	113686.8 159148.5 222859.2		92827.5 133942.2 184706.5	13025.2 17504.7 23524.8	105852.7 143446.9 208231.4	1019.3	1535.8 2165.4	191982.9 151982.9 213127.9
UF ILLIMUIS REGATE PLAMM	I O N 0 0 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	1984	92542.3	166°7.4 224,4.9 32157.2	107339.4	1363.4	1554.2 2199.4 3102.4	109927.9 153881.9 215476.6		89588.4 126514.2 173450.5	12645.8	102374.3	989.3	2003.2	25.7. 2.3.7. 2.3.0.4.
UAIVERSITY OF El foy aggrég	V E E P	CASE	1973 1983 1993	97576.8 173535.5 174554.8	15211.1 21730.3 - 29278.9	103747.9 145321.8 203537.7	1343.1 1635.0	1506.4 2175.0	136273.1 143799.9 238343.2		85555.5 122236.0 172425.0	12277.5	98913.0 138735.9. 194500.1	0.0 1200.8 1734.1	2022.4	953. 354.
U MODE:	•		1942	84612.3 119358.3 1662(0.0	15733.9 21151.7 -28920.1	100354.2 140509.3 196792.1	1204.0 1752.5	1465.5 2053.1 22053.1	102733.3 143866.9 231443.7		0.0	16013.3	0.0 134121.7. 188123.4	0.0 1253.2 1684.2	1994.3	9 2 2 3
			1971 1991 1991	81753.9 115321.8 162672.5	15280.5 20535.7 27578.1	97034.4 135257.4 190270.7	1266.0	1983.7	97034.4 139107.2 194770.3		0.0 . 114106.6 160361.2	155-2.7	0.0 129641.3 181862.8	0.0 1216.7 1635.2	3.0. 18e7.9 2063.1	0.0 132766.0 126161.0
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8 SALARIES + MAGES	8175349 126960.2 197163.7	85432.8 132673.3 206035.9	8,277.2 139543.5 215307.3	93294.5 14~382.4 224776.0	97492.7	101679.8 158214.9 245730.8	104464.3 165334.4 256757.2	111255.1 17.774.3 255311.0	115251.5 180549.0 280334.8	121453.2
10 EXPENSE + EQUIPMENT	15290.5 22618.9 33481.4	15891.7 23523.6 34320.7	16527.4 24454.6 36213.5.	17188.5 25443.1 37552.1	17875.3 24450.9 39158.5	18591.1 27519.3 	10374.7	20104.1 29764.9	20912.4 30955.5 45421.6	21748.9
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S2 EQUIPMENT REPLACEMENT	2071.6	1455.5 2154.5 3183.2	1513.7 22.40.7 3316.7	2330.3	2423.5 3587.4	1702-7 2520-5 37:0-9	2621.3 3830.1		243347	1362.C.
S4 . NEA PACORAMS	1441.9	970.3 1505.8 2340.0	1574.6	1350.6	1107.3	1157.1	1209.2	127.1.6 1352.3 3047.3	1379.4 2030.6 3184.5	21.2.9
50 OPER BUD=SM*EE+EP+NP	970;4.4 153092.7 235950.9	10375J.3 15955d.3 246365.4	103332.2	113116.9 174301.3 264552.8	119113.3 182035.9 280546.9	123330.7 190051.6 292957.5	124779.0 194452.6 205918.1	134464.4 237227.6 319452.9	6404. 5.109. 3547.	205.1
65				******			***************************************		!	
30 SALARIES + HAGES	0.0 123232.0 191373.9	0.0 128777.3 199985.6	86655.5 1345 72.2 208184.8	90554.9 140627.8 218388.9	04529.4 146955.0 229216.2	m =	160479.3	167774.1	112847.4 175247.1 277151.2	117725.5 193133.1 286-197.7
32 EXPENSE + EQUIPMENT	0.0 16402.5 24871.9	17474.7 25856.8	12277.5	12768.6 13-30.6 27977.6	13575.3	13310.5	14352.9 21250.5 31470.7	14737.5 22111.1 32723.8	15535.0	161'6.3 6:215.3 31.00.5
34 SUB-TOTAL SM + EE	0.0 140034.6 216245.9	0.0 156252.0. 225852.4	44933.0 1527:5.9 235835.3	103323.5 157529.5	107939.2 156512.6. 257312.9	117598.6 174311.8 268745.3	117700.9 141740.0 280638.3	122925.5	124342.4	1340F1.9 307049.4 21974F.3
60 EQUIPMENT REPLACEMENT	0.0 1483.9 1483.9	0.0 1483.7 1483.9	0.0 1433.9 1433.9	1483.9	1483.9	1483.9 1483.9 1483.9	1483.4	1483.9 1463.9 1433.9	2	0.683.9 1.483.9 1.483.9
62 NEJ PROGRAMS	1346.3	1406.9	14.79.2 22.93.1	985.3 1536.3 2385.9	1013.9 1605.5 2493.2	1080.3	1129.J 1753.2 2722.1	1179.2 1832.1 2945.2	1232.8	2000.7
64. OPER BUD=SW+EE+ER+NP	0.0 142864.8 219828.5	0.0 149142.8 229521.i	94933.0 155730.0 2396.13.3.	105796.7 162548.7 25023642.	110426.9 169732.3 261230.2	115262.8 177173.4 272335.6	120313.7 184977.1 284394.9.	125563.2 191127.8 207490.8	131099.1 20:041.1	136454.0 210532.3

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8 UD = SH+ EE + ER + NP

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	1987	112725.4 192550.0 328931.2	19334.7 28620.1 -42354.7.	132350.1 221170.1 371265.9	1130.5 1747.5 2586.7	1063.2	132874.7 224000.7 375702.8	.07350.7 183359.4 313219.5	14362.9 21250.5 31470.9	122930.8 206576.7 348137.3	1112.8 1647.3 2438.3	530.7 912.2 1694.3	124624.5 209315.9 352210a5.
	1976 1986 1996	106448.7 182512.0 311754.9	18591.1 27519.3 497.35.3	125439.8 210931.3 352410.2	1135.1	621.1 1026.7 1753.9	127176.0 212738.2 356731.1	101754.3	13813.5 20442.9 30250.5	116720.5 196195.4 330422.7	1070.0 1583.9 2344.6	550.5. 7.0.5 1606.5	118341.1 198719.8 334373.8
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7	1934	_95998.6 163978.5 280097.3	17198.5 25442.1 37052.1	113187.1 1874.71.7 317759.3	1553.5 229°.5	540.0 722.5 1575.7	114774.6 191497.6 321634.6	91421.5	12768.6 14703.6 27917.6	105232.0 176911.4 297647.2	989.3	434.7 345.0 1443.4	106716.0 179123.9 -30127E.3
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,	1971 1981 1991	81753 49. 139646.6 238535.1	15280.5 22613.9	97034.4 162265.5 272016.6	1341.0	0.0 785.6 1341.9	97034.4 164432.1 275402.7	0.0 132963.4 227162.0	0.0 16802.6 24871.9	151263.9	0.0 1301.9 1927.1	719.6	0.0 153310.4 252710.5
		SA1 481ES + MAGES	PENSE + EQUIPMEN	SUB-TOTAL SH + EE	RQUIPMENT_REPLACEMENT	NEJ PROGRAMS .	OPER BUD=SH+EE+ER+NP	SALARIES + WAGES	EXPENSE + EQUIPMENT	SUB-TUTAL SM + EE	EQUIPMENT REPLACEMENT	- NEA PROGPAMS	OPER BUD*S#+EE+ER+NP
	,	cc	10	12		75	26	33	32	34	69	7	